

## Technical parameters of ZCM400P diesel generator sets

Technical parameters		
Model		ZCM400P
Dimension (L×W×H)	mm	3230×1250×1790
Weight	kg	4120
Prime power	kVA/kW	500/400
Standby power	kVA/kW	550/440
Rated voltage	V	400/230
Output frequency	Hz	50
Rated power factor (lag)	Cosφ	0.8
Steady voltage regulation rate	%	±1
Voltage fluctuation rate	%	≤0.5
Frequency fluctuation rate	%	≤0.5
Sudden load frequency stable time	s	≤3
Sudden load voltage stable time	s	≤2
Waveform deviation rate	THD	≤5%
Wire mode		3-phase 4-wire (neutral point direct grounding)
Control system		Micro-processor control system
Damping system		high-elasticity rubber damper
Noise (7 meter)	dB	92
Engine		
Engine model		KTA19-G4
Dimension (L×W×H)	mm	2142×1067×1734 (Air filter and fan included)

Weight	kg	1855
Power (prime\standby)	kW	448/504
Engine type		6 in-line
Oil type		API CF SAE 15W-40
Fuel type		0#diesel
Oil consumption rate	g/kWh	0.5% of fuel consumption
Start mode		24V DC Electro-start
Speed regulating mode		Electro-regulation
Cooling method		Closed circulation water cooled
Exhaust back pressure (Max.)	kPa	10.2
Fan power consumption	kW	14
Coolant flow	m <sup>3</sup> /h	0.546
Intake flow	m <sup>3</sup> /s	0.532
Exhaust flow	m <sup>3</sup> /s	1.434
Lube oil capacity	L	50
Cooling system capacity	L	30 (only for engine)
Exhaust temperature	°C	538
Cooling air flow	m <sup>3</sup> /min	805
Compression ratio		14.5:1
Combustion mode		Direct injection
Bore\Stroke	mm	159/159
Displacement, single cylinder	L	3.15
Flywheel interface size (flywheel shell/flywheel)		SAE0/14

<b>Generator</b>	
Model (single bearing)	MP-400-4
Dimension (L×W×H)	mm 1090×660×985
Weight	kg 1117
Rated power	kW 400
Rated voltage	V 400/230
Frequency	Hz 50
Pole (P)	4
Excitation system	Brushless self-excitation
Short circuit current capability	300% (3In) : 10s
Protection	IP21
Winding pitch	2/3
<b>Control system</b>	
Control module	Zhongzhi 170HC (automatic type)
Displayed contents	Over-speed, oil pressure, water temperature, charge fail, alarm fault, etc.
Main functions	High water temperature, low oil pressure, over-speed, start fail, manual start control, and remote start control, with expansion.